IN THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

- (Currently Amended) An input / output signaling apparatus, comprising:
 a low voltage input stage that receives low voltage core input signals;
 an output stage that provides a higher voltage external output based on the low voltage
 core input signals; and
- a cascode stage coupled between the low voltage input stage and the output stage that provides a bias to the output stage and provides a limit for preventing breakdown in the low voltage input stage;

a feedback device coupled to the output stage that prevents static current after a change in value of the external output; and

a keeper device that maintains the changed value of the external output based on operation of the feedback device.

2-3. (Canceled).

- 4. (Currently amended) The input / output signaling apparatus of claim 1, wherein a range of the low voltage core input signals is limited to between approximately 0 volts 0 volt and 1 volt.
- 5. (Original) The input / output signaling apparatus of claim 1, wherein a range of the higher voltage external output can exceed a range of the low voltage core input signals by a factor of approximately three.
- 6. (Original) The input / output signaling apparatus of claim 4, wherein a range of the higher voltage external output can exceed the range of the low voltage core input signals by a factor of approximately three.
- 7. (Original) The input / output signaling apparatus of claim 6, wherein the range of the higher voltage external output is between approximately 0 volt and 3.3 volts.

- 8. (Original) The input / output signaling apparatus of claim 1, wherein the low voltage input stage is comprised of a pair of low-voltage transistors having gates respectively coupled to a pair of differential signals corresponding to the low voltage core input signals.
- 9. (Original) The input / output signaling apparatus of claim 1, wherein the output stage is a current mirror comprised of a pair of transistors having threshold voltages in accordance with the higher voltage external output.
- 10. (Original) The input / output signaling apparatus of claim 9, wherein the cascode stage is comprised of a pair of transistors having threshold voltages approximately the same as the threshold voltages of the current mirror transistors.
- 11. (Original) The input / output signaling apparatus of claim 1, wherein the low voltage input stage is comprised of a first pair of low-voltage transistors having gates respectively coupled to a pair of differential signals corresponding to the low voltage core input signals, and wherein the output stage is a current mirror comprised of a second pair of transistors having threshold voltages in accordance with the higher voltage external output, and wherein the cascode stage is comprised of a third pair of transistors having threshold voltages approximately the same as the threshold voltages of the current mirror transistors.
- 12. (Original) The input / output signaling apparatus of claim 7, wherein the low voltage input stage is comprised of a pair of low-voltage transistors having gates respectively coupled to a pair of differential signals corresponding to the low voltage core input signals.
- 13. (Original) The input / output signaling apparatus of claim 7, wherein the output stage is a current mirror comprised of a pair of transistors having threshold voltages in accordance with the higher voltage external output.
- 14. (Original) The input / output signaling apparatus of claim 13, wherein the cascode stage is comprised of a pair of transistors having threshold voltages approximately the same as the threshold voltages of the current mirror transistors.

15. (Original) The input / output signaling apparatus of claim 7, wherein the low voltage input stage is comprised of a first pair of low-voltage transistors having gates respectively coupled to a pair of differential signals corresponding to the low voltage core input signals, and wherein the output stage is a current mirror comprised of a second pair of transistors having threshold voltages in accordance with the higher voltage external output, and wherein the cascode stage is comprised of a third pair of transistors having threshold voltages approximately the same as the threshold voltages of the current mirror transistors.

- 16. (Currently Amended) An input / output signaling apparatus, comprising: a low voltage input stage that receives low voltage core input signals; an output stage that provides a higher voltage external output based on the low voltage core input signals;-and
- a cascode stage coupled between the low voltage input stage and the output stage that provides a bias to the output stage; and
 - a feedback device coupled to the output stage; and
- a keeper device that maintains a changed value of the external output based on operation of the feedback device.
- 17. (Canceled).
- 18. (Currently amended) The input / output signaling apparatus of claim 16, wherein a range of the low voltage core input signals is limited to between approximately 0 volts 0 volt and l volt.
- 19. (Original) The input / output signaling apparatus of claim 16, wherein a range of the higher voltage external output can exceed a range of the low voltage core input signals by a factor of approximately three.
- 20. (Original) The input / output signaling apparatus of claim 18, wherein a range of the higher voltage external output can exceed the range of the low voltage core input signals by a factor of approximately three.

- 21. (Original) The input / output signaling apparatus of claim 20, wherein the range of the higher voltage external output is between approximately 0 volt and 3.3 volts.
- 22. (Original) The input / output signaling apparatus of claim 16, wherein the bias provided to the output stage provides a limit for preventing breakdown in the low voltage input stage.
- 23. (Original) The input / output signaling apparatus of claim 16, wherein the feedback device prevents static current after a change in value of the external output.
- 24. (New) A method for input / output signaling, the method comprising the steps of: receiving low voltage core input signals; providing a higher voltage external output based on the low voltage core input signals; providing a bias to the external output; providing a feedback signal, the feedback signal relating to a change in value of the external output; and

maintaining the changed value of the external output based the feedback signal.

- 25. (New) The method of claim 24, wherein a range of the low voltage core input signals is limited to between approximately 0 volt and 1 volt and the range of the higher voltage external output is between approximately 0 volt and 3.3 volts.
- 26. (New) The method of claim 24, wherein the bias provides a limit for preventing breakdown in the step of receiving the low voltage core input signals.
- 27. (New) The method of claim 24, wherein the feedback signal prevents static current after the changed value of the external output.